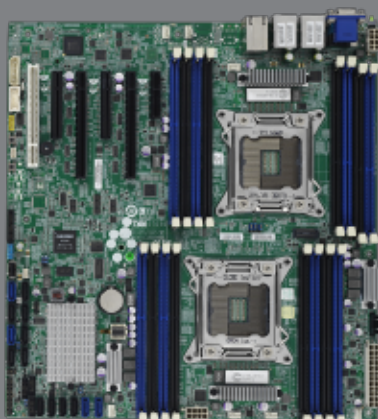
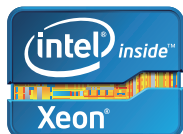


## DUAL-SOCKET SERVER PLATFORM

### S7050

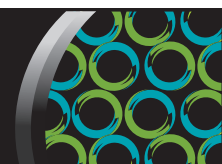
S7050A2NRF / S7050GM4NR / S7050WGM4NR /  
S7050GM2NR(BTO) / S7050WGM2NR(BTO)



■ Intel® C602 Chipset

High-end dual-socket server platform for HPC and server virtualization applications with (4) GbE and iKVM support workgroups & SMB

- Dual LGA2011 socket supports (2) E5-2600 series CPU
- Intel® C602 PCH and INTEL SAS ROM key design
- (8+8) 240-pin DDR3 DIMM slots DDR3/DDR3L 800/1066/1333/1600 RDIMM, 800/1066/1333 UDIMM/LRDIMM support DDR3 Unbuffered and Register ECC
- Support up to 128GB UDIMM/256GB RDIMM/512GB LDRIMM memory
- (1) PCI-E x4 slots , (2) PCI-E x8 slots, (2) PCI-E x16 slots, (1)PCI Slot
- (4) SATA-II connectors w/ RAID 0, 1, 10, 5 support
- (2) SATA-III connectors
- up to (4) GbE LAN
- SSI EEB (12" x 13") form factor

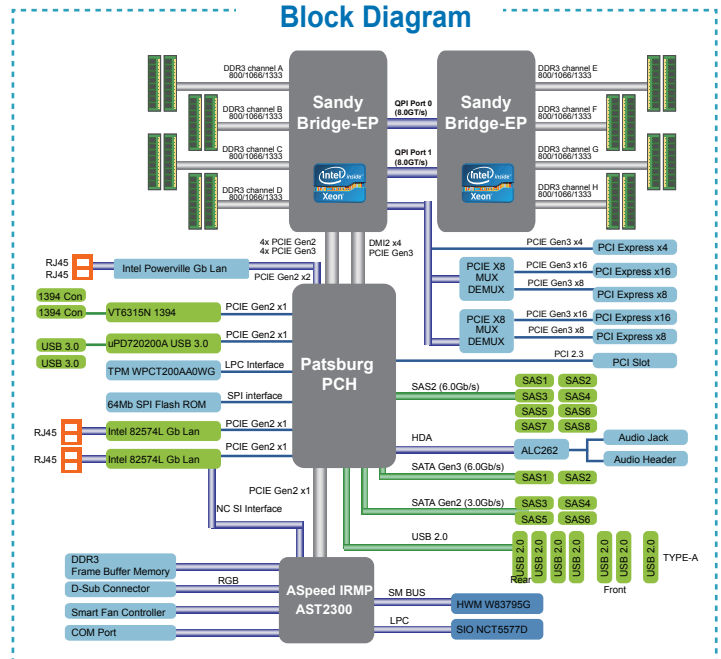


# S7050

S7050A2NRF / S7050GM4NR / S7050WGM4NR /  
S7050GM2NR(BTO) / S7050WGM2NR(BTO)

## TYAN Specifications

|                 |                                    |                                                                                                                                                                                                                                                     |
|-----------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor       | Supported CPU Series               | Intel Xeon E5-2600 Series processors                                                                                                                                                                                                                |
|                 | Socket Type / Q'ty                 | LGA2011 / (2)                                                                                                                                                                                                                                       |
|                 | Thermal Design Power (TDP) wattage | 150W                                                                                                                                                                                                                                                |
| Chipset         | PCH / PCI-E Switch                 | Intel® C602 series<br>-W sku include INTEL ROM 5 key                                                                                                                                                                                                |
|                 | Super I/O                          | Nuvoton 5577D                                                                                                                                                                                                                                       |
| Memory          | Supported DIMM Qty                 | (8+8) DIMM sockets                                                                                                                                                                                                                                  |
|                 | DIMM Type / Speed                  | DDR3/DDR3L 800 / 1066 / 1333 / 1600 RDIMM, 800 / 1066 / 1333 UDIMM / LRDIMM / Support DDR3 Unbuffered and Register ECC                                                                                                                              |
|                 | Capacity                           | up to 128GB UDIMM / 256GB RDIMM / 512GB LRDIMM                                                                                                                                                                                                      |
|                 | Memory channel                     | 4 Channels                                                                                                                                                                                                                                          |
|                 | Memory voltage                     | 1.35V/1.5V                                                                                                                                                                                                                                          |
| Expansion Slots | PCI-E                              | (1) PCI-E x4 slot (x4 link, slot #6)<br>(1) PCI-E x16 slot (x16 link or x8 link, slot #5)<br>(1) PCI-E x8 slot (x8 link or x0 link, slot #4)<br>(1) PCI-E x16 slot (x16 link or x8 link, slot #3)<br>(1) PCI-E x8 slot (x8 link or x0 link, slot#2) |
|                 | Recommended TYAN® Riser Card       | -                                                                                                                                                                                                                                                   |
|                 | PCI                                | (1) PCI 32-bit slot (x8 link, slot #1)                                                                                                                                                                                                              |
| LAN             | Port Q'ty                          | (4) GbE ports                                                                                                                                                                                                                                       |
|                 | Controller                         | Intel® 82574L / Intel® I350-AM2                                                                                                                                                                                                                     |
| Storage         | SAS (opt.)                         | Connector (8) SAS (S7050WGM2NR, S7050WGM4NR)                                                                                                                                                                                                        |
|                 |                                    | Controller Intel C602 with TRK-5 upgrade ROM module                                                                                                                                                                                                 |
|                 |                                    | Speed 3.0 Gb/s                                                                                                                                                                                                                                      |
|                 | SATA                               | RAID RAID 0/1/10                                                                                                                                                                                                                                    |
|                 |                                    | Connector (6) SATA                                                                                                                                                                                                                                  |
|                 |                                    | Controller Intel® C602                                                                                                                                                                                                                              |
| Graphic         | Connector type                     | D-Sub 15-pin                                                                                                                                                                                                                                        |
|                 | Resolution                         | -                                                                                                                                                                                                                                                   |
|                 | Chipset                            | Aspeed AST2300                                                                                                                                                                                                                                      |
| Audio           | Chipset                            | ACC262 (S7050A2NRF)                                                                                                                                                                                                                                 |
|                 | Version                            | -                                                                                                                                                                                                                                                   |
| TPM (optional)  | Chipset                            | -                                                                                                                                                                                                                                                   |
|                 | Version                            | -                                                                                                                                                                                                                                                   |
| Input /Output   | USB                                | (7) USB2.0 ports<br>(4 at rear, 2 at front, 1 type A)                                                                                                                                                                                               |
|                 | COM                                | (1) DB-9 COM connctor (at rear, COM1) + (1) Header (COM2)                                                                                                                                                                                           |
|                 | Audio                              | -                                                                                                                                                                                                                                                   |
|                 | VGA                                | (1) D-Sub 15-pin VGA port                                                                                                                                                                                                                           |
|                 | DVI                                | -                                                                                                                                                                                                                                                   |
|                 | Display Port                       | -                                                                                                                                                                                                                                                   |
|                 | Power                              | SSI 24-pin + 8-pin + 8-pin power connectors<br>(1) 4 pin power connector for PCI-E                                                                                                                                                                  |
|                 | RJ-45                              | (4) GbE ports                                                                                                                                                                                                                                       |
|                 | Power                              | SSI/ATX 24-pin + 8-pin + 8-pin power connectors                                                                                                                                                                                                     |
|                 | Front Panel                        | (1) 2x12-pin SSI front panel header                                                                                                                                                                                                                 |
|                 | SATA                               | (4) SATA-II and (2) SATA-III connectors                                                                                                                                                                                                             |



|                       |                           |                                                                                                                                                                                                    |
|-----------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Monitoring     | Chipset                   | Winbond W83795G                                                                                                                                                                                    |
|                       | Voltage                   | Monitors voltage for CPU, memory, chipset & power supply                                                                                                                                           |
|                       | Fan                       | Total (7) 4-pin headers                                                                                                                                                                            |
| Server Management     | Temperature               | Monitors temperature for CPU & system environment                                                                                                                                                  |
|                       | Onboard Chipset           | Onboard Aspeed AST2300                                                                                                                                                                             |
|                       | AST2300 IPMI Feature      | IPMI 2.0 compliant baseboard management controller (BMC)<br>Supports storage over IP and remote platform-flash<br>USB 2.0 virtual hub                                                              |
| BIOS                  | AST2300 iKVM Feature      | 24-bit high quality video compression<br>10/100 Mb/s MAC interface                                                                                                                                 |
|                       | Brand / ROM size          | AMI / 16MB                                                                                                                                                                                         |
| Form Factor           | Feature                   | Plug and Play (PnP) /PCI2.3 /WfM2.0 /SMBIOS2.3 /PXE boot / ACPI 2.0 power management /Power on mode after power recovery / User-configurable H/W monitoring / Auto-configurable of hard disk types |
|                       | Form Factor               | SSI EEB                                                                                                                                                                                            |
| Operating System      | Board Dimension           | 12"x13" (305x330mm)                                                                                                                                                                                |
|                       | OS supported list         | Please refer to our OS supported list.                                                                                                                                                             |
| Regulation            | FCC (DoC)                 | Class B                                                                                                                                                                                            |
|                       | CE (DoC)                  | Yes                                                                                                                                                                                                |
| Operating Environment | Operating Temp.           | 10° C ~ 35° C (50° F ~ 95° F)                                                                                                                                                                      |
|                       | Non-operating Temp.       | - 40° C ~ 70° C (-40° F ~ 158° F)                                                                                                                                                                  |
|                       | In/Non-operating Humidity | 90%, non-condensing at 35° C<br>Non-operating Relative Humidity: 10% to 95% (non-condensing)                                                                                                       |
| RoHS                  | RoHS 6/6 Compliant        | Yes                                                                                                                                                                                                |
| ErP/EuP               |                           | YES                                                                                                                                                                                                |

(Specifications are subject to change without notice. Items pictured may only be representative.)

**MITAC INTERNATIONAL CORP.**  
TYAN Business Unit

**USA**  
Tel: +1-510-651-8868  
Fax: +1-510-651-7688

**Taiwan**  
Tel: +886-2-2652-5888  
Fax: +886-2-2652-5805

**Japan**  
Tel: +81-3-3769-8311  
Fax: +81-3-3769-8328

**Europe**  
Sales: +32 2456 1721  
Technical Support: +32 2456 1722

**China**  
Shanghai Tel: +86-21-61431188 Ext 1366  
China Tel: +86-010-62555015 Ext 8302